

...SEPTEMBER 2010 REGIONAL CLIMATE SUMMARY...

SUMMARY FOR THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA...

AFTER FIVE STRAIGHT MONTHS OF BELOW NORMAL TEMPERATURES...SEPTEMBER TEMPERATURES WERE NEAR NORMAL ACROSS THE REGION AND EVEN A LITTLE ABOVE NORMAL AT MANY LOCATIONS. A COUPLE OF BRIEF WARM SPELLS AT THE BEGINNING OF SEPTEMBER AND A LONGER MORE INTENSE HEAT WAVE AT THE END OF THE MONTH MORE THAN OFFSET A COOL PERIOD DURING THE MIDDLE OF THE MONTH.

THE WEATHER PATTERN DURING THE FIRST ELEVEN DAYS OF THE MONTH WAS CHARACTERIZED BY FREQUENT TEMPERATURE SWINGS AS A SERIES OF HIGH PRESSURE RIDGES AND LOW PRESSURE TROUGHS MOVED THROUGH THE AREA. TEMPERATURES WERE MOSTLY ON THE WARM SIDE OF NORMAL DURING THE FIRST COUPLE OF WEEKS OF SEPTEMBER...BUT ONE DAILY RECORD HIGH WAS SET EARLY IN THE MONTH.

FROM THE 12TH THROUGH THE 22ND THE WEATHER PATTERN RETURNED TO WHAT IT HAD BEEN FOR MUCH OF THE SUMMER...A PERSISTENT UPPER TROUGH LOCATED NEAR THE WEST COAST RESULTING IN A DEEP MARINE LAYER AND COOL ONSHORE FLOW. TEMPERATURES WERE CONSISTENTLY BELOW NORMAL DURING THIS TIME SPAN.

AN UPPER LEVEL RIDGE BEGAN TO BUILD ALONG THE WEST COAST ON THE 24TH...AND THEN STRENGTHENED THROUGH THE 27TH. TEMPERATURES ROSE INTO RECORD TERRITORY BY THE 25TH AS LIGHT OFFSHORE FLOW DEVELOPED. TEMPERATURES THEN FELL A BIT ON THE 26TH AS HIGH PRESSURE WEAKENED SLIGHTLY. THE WARMING TREND REDEVELOPED ON THE 27TH AS THE RIDGE OF HIGH PRESSURE BECAME STRONGER. THE HEAT WAVE PEAKED ON THE 27TH AND 28TH. DURING THOSE TWO DAYS...17 DAILY TEMPERATURE RECORDS WERE TIED OR BROKEN ACROSS THE REGION. THE HEAT WAVE WAS EVEN MORE INTENSE ACROSS SOUTHERN CALIFORNIA. ON SEPTEMBER 27 DOWNTOWN LOS ANGELES SET AN ALL-TIME MAXIMUM TEMPERATURE RECORD WITH A HIGH OF 113.

A WEAK SEABREEZE RETURNED ON THE 29TH...COOLING COASTAL AREAS. BUT AREAS WELL INLAND REMAINED HOT ONE MORE DAY ALLOWING LIVERMORE TO SET ONE MORE DAILY HIGH TEMPERATURE RECORD.

SEPTEMBER PRECIPITATION WAS BELOW NORMAL ACROSS THE ENTIRE REGION. A COLD FRONT BROUGHT SIGNIFICANT PRECIPITATION TO NORTHWESTERN CALIFORNIA ON THE 18TH AND 19TH...BUT THE FRONT WEAKENED CONSIDERABLY BY THE TIME IT REACHED THE SAN FRANCISCO BAY AREA ON THE 19TH. LIGHT RAIN FELL ACROSS PORTIONS OF THE NORTH BAY...BUT RAINFALL TOTALS ON THE 19TH WERE GENERALLY LESS THAN A QUARTER OF AN INCH. THE EXCEPTIONS WERE AT FORT ROSS AND OCCIDENTAL WHERE 0.36 AND 0.61 INCHES OF RAIN FELL RESPECTIVELY. ALL OTHER MEASURABLE RAINFALL DURING SEPTEMBER CAME IN THE FORM OF DRIZZLE FALLING FROM A DEEP MARINE LAYER.

...SEPTEMBER REGIONAL TEMPERATURE SUMMARY...

LOCATION	AVG HIGH	NORMAL HIGH	DEPARTURE FROM NORMAL	AVG LOW	NORMAL LOW	DEPARTURE FROM NORMAL
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NORTH BAY...

CALISTOGA	89.9	88.2	1.7	48.2	50.1	-1.9
HEALDSBURG	87.0	84.9	2.1	50.9	52.9	-2.0
KENTFIELD	81.4	82.1	-0.7	52.4	51.7	0.7
NAPA	83.6	82.3	1.3	53.2	53.1	0.1
SAN RAFAEL	79.9	80.0	-0.1	54.4	54.0	0.4
SANTA ROSA	84.3	81.6	2.7	51.3	51.9	-0.6

SAN FRANCISCO PENINSULA...

HALF MOON BAY	66.1	67.0	-0.9	49.7	51.7	-2.0
REDWOOD CITY	80.6	80.5	0.1	53.9	53.5	0.4
SAN FRANCISCO AIRPORT	78.2	73.4	4.8	58.9	55.1	3.8
SAN FRANCISCO DOWNTOWN	71.3	70.9	0.4	55.0	56.1	-1.1

EAST BAY...

CONCORD	86.4	84.9	1.5	58.1	57.1	1.0
FREMONT	80.1	79.3	0.8	55.7	55.8	-0.1
LIVERMORE	86.8	86.0	0.8	54.9	53.2	1.7
OAKLAND	76.0	74.9	1.1	56.6	58.4	-1.8

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	86.3	83.9	2.4	48.4	49.1	-0.7
MOUNT HAMILTON	73.9	73.9	0.0	60.6	58.4	2.2
SAN JOSE	82.7	80.9	1.8	57.5	56.6	0.9
SANTA CRUZ	78.8	75.3	3.5	51.5	52.0	-0.5

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	82.0	79.4	2.6	50.4	49.3	1.1
HOLLISTER	81.9	81.0	0.9	52.0	52.2	-0.2
KING CITY	85.2	84.7	0.5	51.1	49.9	1.2
MONTEREY	70.0	71.7	-1.7	52.0	53.3	-1.3
SALINAS	75.2	74.5	0.7	51.2	53.7	-2.5

...SEPTEMBER REGIONAL PRECIPITATION SUMMARY...

LOCATION	SEPT TOTAL	AVERAGE SEPT PRECIP	PERCENT OF NORMAL
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NORTH BAY...

CALISTOGA	0.07	0.34	21
CLOVERDALE	0.06	0.66	9
HEALDSBURG	0.01	0.55	2
KENTFIELD	0.00	0.50	0
MUIR WOODS	0.47	0.56	84
NAPA	0.00	0.41	0
OCCIDENTAL	0.61	0.66	92
PETALUMA	0.00	0.30	0
SAINT HELENA	T	0.45	0
SAN RAFAEL	0.00	0.34	0
SANTA ROSA	0.10	0.49	20
SONOMA	0.00	0.33	0

SAN FRANCISCO PENINSULA...

HALF MOON BAY	0.30	0.44	68
REDWOOD CITY	0.00	0.22	0
SAN FRANCISCO			
AIRPORT	0.01	0.20	5
SAN FRANCISCO			
DOWNTOWN	0.02	0.28	7

EAST BAY...

CONCORD	0.00	0.03	0
FREMONT	0.00	0.08	0
LIVERMORE	T	0.24	0
MARTINEZ	0.00	0.24	0
MOUNT DIABLO			
JUNCTION	M	0.36	M
NEWARK	0.00	0.20	0
OAKLAND	0.02	0.30	7
RICHMOND	0.00	0.27	0

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	0.00	0.53	0
GILROY	0.00	0.33	0
LOS GATOS	M	0.24	M
MOUNT HAMILTON	0.02	0.44	5
SAN JOSE	T	0.23	0
SANTA CRUZ	0.01	0.41	2
WATSONVILLE	0.00	0.30	0

MONTEREY AND SAN BENITO COUNTIES...

BIG SUR STATION	M	0.56	M
CARMEL VALLEY	0.04	0.09	44
HOLLISTER	0.00	0.44	0
KING CITY	T	0.18	0
MONTEREY	0.05	0.28	18
PINNACLES NATIONAL			
MONUMENT	M	0.34	M
SALINAS	T	0.17	0

...DAILY TEMPERATURE RECORDS FOR SEPTEMBER 2010...

DATE	LOCATION	RECORD MAXIMUM TEMP	OLD RECORD
9/01	SALINAS	91	84 IN 2007
9/25	OAKLAND AIRPORT	94	93 IN 1960
9/25	SANTA CRUZ	100	99 IN 1937
9/27	SANTA ROSA	104	103 IN 1963
9/27	SAN FRANCISCO	93	92 IN 1984
9/27	OAKLAND AIRPORT	96	95 IN 1958
9/27	MOFFETT FIELD	94	92 IN 1999
9/27	SALINAS AIRPORT	102	101 IN 1970
9/27	SAN FRANCISCO AIRPORT	96	96 IN 1958
9/27	SANTA CRUZ	103	103 IN 1970
9/28	SANTA ROSA	104	102 IN 1921
9/28	SAN RAFAEL	99	97 IN 1966
9/28	SAN FRANCISCO AIRPORT	95	93 IN 1966
9/28	OAKLAND AIRPORT	100	97 IN 1997
9/28	RICHMOND	97	95 IN 1958
9/28	SAN JOSE	99	95 IN 1966
9/28	MOFFETT FIELD	96	95 IN 1997
9/28	LIVERMORE	105	102 IN 1958
9/28	GILROY	104	101 IN 1993
9/28	OAKLAND MUSEUM	92	92 IN 1997
9/29	LIVERMORE	102	98 IN 1978

...MONTHLY RANKS FOR DOWNTOWN SAN FRANCISCO...

AVERAGE HIGH TEMPERATURE....71.3....27TH WARMEST OUT OF 136 YEARS
AVERAGE LOW TEMPERATURE.....55.0.....54TH COOLEST OUT OF 136 YEARS

NOTE: THIS CLIMATOLOGICAL DATA IS PRELIMINARY. FOR OFFICIAL
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